


Multiplication Post-Test : Study Guide

1. Which property is represented in the following equation? $3 \times 2 = 2 \times 3$ Commutative
2. Which property is represented in the following equation? $2 \times (1 \times 4) = (2 \times 1) \times 4$
associative
3. Which property is represented in the following equation? $3 \times 1 = 3$ Identity
4. Which property is represented in the following equation? $24 \times 0 = 0$ Zero Property
5. Which property is represented in the following equation? $2 \times (4 + 3) = (2 \times 4) + (2 \times 3) = 2 \times 7$
Distributive
6. Solve the following: $2 \times (4 \times 3) = 24$
 $\begin{array}{l} 12 \\ \uparrow \\ 2 \times 12 = \end{array}$
 (Parenthesis) say "Do me first"
7. $4 \times 7 = 28$
8. $2 \times 9 = 18$
9. $8 \times 6 = 48$
10. $5 \times 5 = 25$
11. A group of 4 teachers went to dinner. Each teacher's meal cost \$6 each. What is the total cost of their meal? $4 \times \$6 = \24

12. What happens when you multiply two odd numbers together? Odd \times odd = odd Explain your answer: If I take 3 and 5, which are both odd and multiply, I get 15, which is also odd.
13. What happens when you multiply two even numbers together? Even \times even = even Explain your answer: If I take 2 and 4, which are both even, and multiply, I get 8, which is also even.
14. What happens when you multiply an odd number and an even number together? Odd \times even = even Explain your answer: If I take 3 (which is odd) and 2 (which is even) and multiply, I get 6, which is even.
15. Sally said that $3 + 3 + 3 + 3 + 3 = 3 \times 5$. Is she correct? Yes How do you know? Because she added 3 five times which is the same as 3×5 , they both equal 15.
16. Write the number sentence that matches the array:
 $2 \times 4 = 8$ or $4 \times 2 = 8$ 
17. Chasity is looking at a book of pictures. The book has 5 pages and there are 8 pictures on each page. Which equation(s) can help you find the total number of pictures in the book?
- (a) 8×5 (b) $5 + 5 + 5 + 5 + 5$
 (c) $5 + 5 + 5 + 5 + 5 + 5 + 5 + 5$ (d) $8 + 8 + 8 + 8$

18. Woodruff High school students are painting the parking lot. They will paint 7 rows with 10 spaces in each row. How many cars will it take to fill the parking lot? $7 \times 10 = 70$ cars

19. Josh was getting on a roller coaster. The roller coaster had 3 carts. In each cart, there were 5 rows with 4 seats in each row. Fill in the blanks to write a multiplication sentence to solve the problem:

3 \times (5 \times 4) = 60

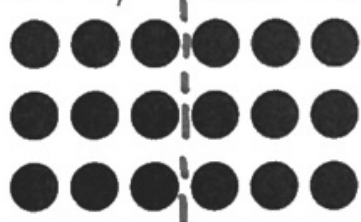
20. Which equation is the same as 7×8 ?

(a) $(7+4) \times (7+4)$ (b) $(7+4) + (7+4)$

(c) $7 \times 4 + 4$ (d) $(7 \times 4) + (7 \times 4)$

21. Use the distributive property to break apart the array:

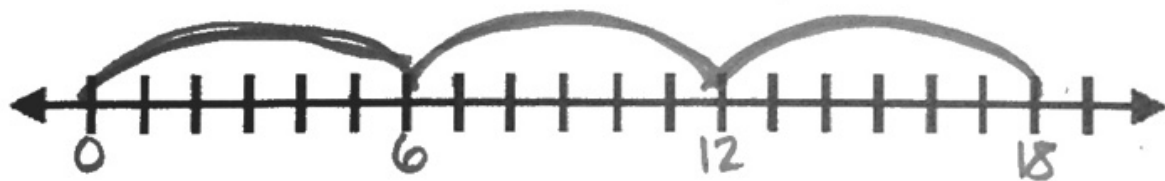
3 \times 6 = (3 \times 3) + (3 \times 3)



22. Which statement is true?

(a) $6 \times 5 = 10 \times 3$ (b) $4 \times 4 \neq 3 \times 1 \times 2$ (c) $0 \times 1 \neq 1 \times 1$

23. Use the number line to show $6 \times 3 = 18$



24. Use the commutative property to complete:
 $9 \times 8 = \underline{8} \times 9$

Name _____

25. If $2 \times 9 = 18$, then $9 \times 2 = 18$

26. $40 \times 4 = 160$

27. Use repeated addition to solve 5×2

5 + 5 = 10 or 2 + 2 + 2 + 2 + 2 = 10

28. Draw a picture to solve $4 \times 3 = 12$

X X X X
X X X X
X X X X

29. Ann ate 7 bananas every day for 5 days. How many did she eat all together? 7 x 5 = 35 bananas

30. Which expression could be used to find the total number of stickers?

4 x 3 = 12 OR 3 x 4 = 12

